Assignment 2

Develop a case study analyzing the implementation of SDLC phases in a real-world engineering project. Evaluate how Requirement Gathering, Design, Implementation, Testing, Deployment, and Maintenance contribute to project outcomes.

Project is the Old Book Selling Websites…

Overview—

1. where people come and list their book of any kind in low price. And the people who want to buy can buy the book according to their budget.

2. In the display it would be the Newly add book which is high in demand.

3. People come and create their account to list their items.

4. And for those who want to buy the product can also create the account.

5. through the account we can track which types of book the particular user like.

6. And according to their choice we use AI to reflect the books of users choice which newly added in our list.

7. And user can buy the product from any thing like cod,debit card,credit card,upi etc.

8. And In the wesite i create the Category where people can find different type of the book.

9. And we can rent the book also.

11. And we also add the ebooks.

12. And it can run in any devices like phone, and computer etc..

SDLC Phases—

1. Requirement-
Requirement means understanding the needs and identify the problem.

1. User Authentication--

Users should be able to register, log in, and manage their accounts securely.

2. Search options--

Users should be able to search for books based on various criteria such as title, author, genre, or publication name.

3. Books Categories--

The website should allow users to browse books by categories.

4. Books Listing--

Sellers should be able to list their books for sale, including details like title, author, condition, price, and images.

5. Shopping Cart--

Users should be able to add books to their shopping cart for purchase.

6. Checkout --

The website should facilitate a smooth payment and delivery.

7. User Reviews--

Users should be able to leave reviews and ratings for books they have purchased.

8. Security--

Users data and password should be secure.

2. Desiging-

- Here we think how our website looks like
- Where should be the signin ,login button
- Where should be the category.
- How all looks user friendly.
- How our each tab should looks like.

3. Coding-:

- Here we start coding.
- We use html,css, javascript and react for frontend.
- And for backend use use Express,Nodejs
- And we also maintain database to keep the information
- For database we use Mongodb.
- And with all the technology we create the website.

4. Testing-:

- Here when our coding part is done.
- We make test cases like if any one list the book how it react.
- When any one create account our log in then it run successfully.
- All the functionality like searching,buying and addto cart option are working good are not.
- If all test cases are successfully pass then we go to the next step.

5. Deployment-

- Now we deploy our website to the market for the user.
- And for that we have to buy server.
- And also domain name.
- After we deploy it.

6. Maintenance-

- Now after deployment if we get any error then we fix it
- We regularly update our website.
- We also done optimization which it always shows top in the users search list.